



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 125858

TO: Manjunath N Rao
Location: REM-3B81/3C70
Art Unit: 1652

~~June~~ 2, 2004

July

Case Serial Number: 09/914543

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 1, 2004, 21:58:24 ; Search time 102 Seconds
(without alignments)
5223.067 Million cell updates/sec

Title: US-09-914-543-45

Perfect score: 960

Sequence: 1 atgagcaagaagaattcgt.....atagaccttattctctaa 960

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 682709 seqs, 277475446 residues 1365418

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

Issued Patents.NA.*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTUS.COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	960	100.0	960	4	US-09-134-078-60
2	114.2	11.9	867	3	US-08-995-280C-1
3	53.8	5.6	7218	1	US-08-232-463-14
4	37.8	3.9	728	4	US-08-956-171E-611
5	36	3.8	936	4	US-09-636-182A-16
6	34.8	3.6	1242	4	US-09-134-000C-3076
7	34.8	3.6	3146	4	US-09-620-312D-277
8	34.8	3.6	15016	4	US-09-601-198-60
9	34.2	3.6	1161	4	US-09-328-352-1845
10	33.8	3.5	1664976	4	US-08-916-421B-1
11	33.4	3.5	3543	4	US-09-224-024-27
12	33.4	3.5	3543	5	PCT-US94-07902-27
13	33.2	3.5	612	3	US-09-385-982-400
14	32.8	3.4	832	4	US-09-621-976-2813
15	32.8	3.4	1422	1	US-08-319-704-5
16	32.4	3.4	3735	4	US-09-543-681A-2102
17	32.4	3.4	90541	4	US-09-759-359A-3
18	32.2	3.4	645	4	US-09-338-352-661
19	32	3.3	1652	4	US-09-375-140-8
20	32	3.3	11049	4	US-10-204-708-22
21	31.8	3.3	828	4	US-09-371-056-9
22	31.8	3.3	1664	4	US-09-397-787-68
23	31.8	3.3	1664	4	US-09-397-787-68
24	31.8	3.3	1892	4	US-09-276-438-12
25	31.8	3.3	4242	4	US-09-276-438-11
26	31.8	3.3	4487	4	US-09-484-970B-96
27	31.8	3.3	44453	4	US-09-146-053-5

28	31.6	3.3	480	4	US-09-621-976-8465
29	31.6	3.3	1185	3	US-08-975-762-15
30	31.6	3.3	1185	3	US-08-821-324-15
31	31.6	3.3	1185	3	US-09-295-028-15
32	31.6	3.3	1185	4	US-09-106-582-15
33	31.6	3.3	1185	4	US-09-159-469-15
34	31.6	3.3	1185	4	US-09-693-542-15
35	31.6	3.3	2129	3	US-08-975-762-39
36	31.6	3.3	2129	3	US-09-292-028-39
37	31.6	3.3	2129	4	US-09-106-582-39
38	31.6	3.3	2129	4	US-09-159-469-39
39	31.6	3.3	2129	4	US-09-693-542-39
40	31.6	3.3	3998	4	US-09-065-046-5
41	31.6	3.3	6376	4	US-09-405-728-1
42	31.6	3.3	99500	4	US-09-798-096-10
43	31.4	3.3	261	3	US-08-906-769-160
44	31.4	3.3	261	3	US-08-906-616-160
45	31.4	3.3	261	3	US-08-639-075A-160

ALIGNMENTS

RESULT 1
US-09-134-078-60
Sequence 60, Application US/09134078
Patent No. 6168844

GENERAL INFORMATION:
APPLICANT: Bvlna, Edward J.
TITLE OF INVENTION: GLYCOSIDASE ENZYMES
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Gray Cary Ware & Freidenrich LLP
STREET: 4365 Executive Drive, Suite 1600
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92121

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/134,078
FILING DATE: 13-AUG-1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/949,026
FILING DATE: 10-OCT-1997
APPLICATION NUMBER: 60/056,916
FILING DATE: 06-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09010/024002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 658/677-1456
TELEFAX: 658/677-1456

INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 960 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...957
US-09-134-078-60

Query Match 100.0%; Score 960; DB 4; Length 960;
Best Local Similarity 100.0%; Pred. No. 1.2e-291;

RESULT 2
US-08-995-280C-1
Sequence 1, Application US/08995280C
Patent No. 6043075
GENERAL INFORMATION:
APPLICANT: Bjornvad, Mads Eskelund

QY	230	TCACACTTAATAAACCATGAAACATCTTTATGTGACATGGATTGGCAATGACGG	289
Db	137	TCACCTTAACATCAACTTTTGGAAATATTCGAAACATGAAAGAAATACATGATGGAT	196
QY	290	ACAATTAAACGACGGCGCTCTTCACTACAGCTGCACAACTTGACACATTTGTCTGAGG	349
Db	197	TTTATTAAGAAAGAAATACCTGTGGAATTTATGGCCGACATTAATAAATCATGATCTTAAAG	256
QY	350	ATGAAAGTAATTTGGGNGCATGGATATCCCGGAATATTTCTATGSAACAACGATGGAATG	409
Db	257	ATTAATATTCATGGTGACATGATATCTGTAAGTCTACTATGGGTACAAACCATGGGCTG	316
QY	410	CAACTACGCAACTGATGGCCCAATACCATTACCCAGTAAGTTCAACCTAACACT	469
Db	317	GGCATGGGAATTCATGTGAAATTAAGTCTTCTTAATAAGATACGAATTTCCAGACG	376
QY	470	TCATCTAACATTTCTCTATTAACCTTGAGCCCAAGAAAGCGCTGCCATTACTTGCAA	529
Db	377	TTCTCTTCACTTAATAAATACAAATATGGTACGAAAGAAATCTTCTATTAATTTTGCTA	436
QY	530	TGAATTCCTGGTTACGAGAGAGCTTGAGACAACAAGGAATTAACGGATGAGCAAG	589
Db	437	TGGAAACATGATTAACAAAGAACCCATTCAGAAACCG--TTACTTCAGGGGATATTAAG	493
QY	590	AAGTAATGATGATTTTACTATGACGGAATTAACAACGGCTGGCTCCAAAGTTAAGAGA	649
Db	494	AGATATGGTATGGCTATATCTAATATAGACTTTCTCTGCAAGGGCCAAAGTGAAGAG	553
QY	650	TTGTGTCCCAATATATTAATGACGAACACCAAGTAAATGCTAATTTGAAGTATGGAAG	709
Db	554	TAAATAATCATATCTTAATCCGTAAACGGTATCAAAAAGCATTAATCTTGGGAAGTATATCTTT	613

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 2, 2004, 00:46:24 ; Search time 650 Seconds
(without alignments)
7124.984 Million cell updates/sec

Title: US-09-914-543-45
Perfect score: 960
Sequence: 1 atgagcaagaagaatgcgt.....atagactctattctcta 960

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 3163042 seqs, 2412103800 residues

Total number of hits satisfying chosen parameters: 6326084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/1/pubpna/PCTIS_PUBCOMB.seq:*
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- 11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
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- 16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	960	100.0	960	US-10-121-032-60	Sequence 60, Appl
2	960	100.0	960	US-10-093-037-60	Sequence 60, Appl
3	958.4	99.8	1134	US-10-003-759-4	Sequence 4, Appl
4	536.8	55.9	978	US-10-228-063-58	Sequence 58, Appl
5	534	55.6	903	US-10-228-063-56	Sequence 56, Appl
6	84.2	8.8	825	US-10-369-493-26728	Sequence 26728, A
7	39	4.1	585	US-10-027-632-197533	Sequence 197533, A
8	39	4.1	585	US-10-027-632-197533	Sequence 197533, A
9	37.8	3.9	728	US-08-781-986A-611	Sequence 611, App
10	37.8	3.9	728	US-10-339-624-611	Sequence 611, App
11	37.2	3.9	2338	US-09-917-800A-1558	Sequence 1558, App
12	36.8	3.8	520	US-10-142-426-144	Sequence 144, App
13	36.8	3.8	520	US-10-123-155-144	Sequence 144, App
14	36.8	3.8	520	US-10-146-731-144	Sequence 144, App

ALIGNMENTS

15	36.8	3.8	520	US-10-140-472-144	Sequence 144, App
16	36.8	3.8	520	US-10-141-761-144	Sequence 144, App
17	36.8	3.8	520	US-10-142-885-144	Sequence 144, App
18	36.8	3.8	520	US-10-158-790-144	Sequence 144, App
19	36.8	3.8	520	US-10-137-871-144	Sequence 144, App
20	36.8	3.8	520	US-10-140-923-144	Sequence 144, App
21	36.8	3.8	520	US-10-140-923-144	Sequence 144, App
22	36.8	3.8	520	US-10-141-759-144	Sequence 144, App
23	36.8	3.8	520	US-10-140-805-144	Sequence 144, App
24	36.8	3.8	520	US-10-140-805-144	Sequence 144, App
25	36.6	3.8	517	US-10-027-632-53266	Sequence 53266, A
26	36.6	3.8	517	US-10-027-632-53266	Sequence 53266, A
27	36.4	3.8	741	US-10-076-555-659	Sequence 659, App
28	36.4	3.8	25580	US-09-070-927A-19	Sequence 19, Appl
29	36.2	3.8	453	US-10-424-599-79602	Sequence 79602, A
30	36	3.8	671	US-10-066-543-464	Sequence 464, App
31	36	3.8	936	US-10-261-845-16	Sequence 16, Appl
32	35.6	3.8	12393	US-10-311-455-1236	Sequence 1236, App
33	35.6	3.7	368	US-10-085-783A-21026	Sequence 21026, A
34	35.6	3.7	368	US-10-242-535A-21026	Sequence 21026, A
35	35.6	3.7	497	US-09-920-300A-1495	Sequence 1495, App
36	35.6	3.7	497	US-10-033-528-1495	Sequence 1495, App
37	35.6	3.7	497	US-10-099-926-1495	Sequence 1495, App
38	35.6	3.7	506	US-09-998-596-499	Sequence 499, App
39	35.6	3.7	1083	US-10-282-122A-17036	Sequence 17036, A
40	35.4	3.7	26747	US-10-240-411-20	Sequence 20, Appl
41	35.2	3.7	496	US-09-930-213-162	Sequence 162, App
42	35	3.6	611	US-10-027-632-188647	Sequence 188647, A
43	35	3.6	611	US-10-027-632-188647	Sequence 188647, A
44	34.8	3.6	573	US-09-814-353-5866	Sequence 5866, App
45	34.8	3.6	573	US-09-814-353-12147	Sequence 12147, A

RESULT 1

US-10-121-032-60
Sequence 60, Application US/10121032
Publication NO. US2002015550A1

GENERAL INFORMATION:

APPLICANT: Bvlin, Edward J.
TITLE OR INVENTION: GLYCOSIDASE ENZYMES
NUMBER OF SEQUENCES: 72

CORRESPONDENCE ADDRESS:
ADDRESSER: Gray Cary Ware & Freidenrich LLP
STREET: 4365 Executive Drive, Suite 1600
CITY: San Diego
STATE: CA

COUNTRY: USA
ZIP: 92121

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/121,032
FILING DATE: 09-Apr-2002

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/134,078
FILING DATE: 13-Aug-1998

APPLICATION NUMBER: 08/949,026
FILING DATE: 10-Oct-1997
APPLICATION NUMBER: 60/056,916
FILING DATE: 06-Dec-1996

ATTORNEY/AGENT INFORMATION:
NAME: Hallie, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 09010/024002

TELECOMMUNICATION INFORMATION:
TELEPHONE: 858/677-1456

TELEFAX: 858/677-1465
 INFORMATION FOR SEQ ID NO: 60:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 960 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: Genomic DNA
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1..957
 SEQUENCE DESCRIPTION: SEQ ID NO: 60:
 US-10-121-032-60

Query Match 100.0%; Score 960; DB 14; Length 960;
 Best Local Similarity 100.0%; Pred. No. 3.4e-272;
 Matches 960; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGAGCAGAGAAAGTTGCTGATGCTATCTATCTTAAGCAATCCTTTTATGATAGGCAATA 60
 1 ATGAGCAGAGAAAGTTGCTGATGCTATCTATCTTAAGCAATCCTTTTATGATAGGCAATA 60
 61 TATTTGTGAAAGATCAATCTCTGAGACAAGTCAATCTCAATCTCATCTCA 120
 61 TATTTGTGAAAGATCAATCTCTGAGACAAGTCAATCTCAATCTCATCTCA 120
 121 CCAACCCCAACACATCTTCCATCAACAGTTCTCAAGATTAGATACCTGATAGCGT 180
 121 CCAACCCCAACACATCTTCCATCAACAGTTCTCAAGATTAGATACCTGATAGCGT 180
 181 GAGTGGCCAGGAGCTCCTATGATAGATGAGTGGAGACCCAGAAATTTACATTGAA 240
 181 GAGTGGCCAGGAGCTCCTATGATAGATGAGTGGAGACCCAGAAATTTACATTGAA 240
 241 ATAACTATGAGAACTTTTAATGCTACTGATTTGCTGAGATGAGCTACATTTAAC 300
 241 ATAACTATGAGAACTTTTAATGCTACTGATTTGCTGAGATGAGCTACATTTAAC 300
 301 AGGCGGCTCCTTCACTACGTCGCAACAACTTGACAACTTGTCTGAGGATGAGATAT 360
 301 AGGCGGCTCCTTCACTACGTCGCAACAACTTGACAACTTGTCTGAGGATGAGATAT 360
 361 TGGGTGATGATACCCCGAAATTTCTATGAGAAACAGCCATGAGTCAAACTAGCA 420
 361 TGGGTGATGATACCCCGAAATTTCTATGAGAAACAGCCATGAGTCAAACTAGCA 420
 421 ACTGATGAGCCAAATCCATTAACCAATTAAGTTTCAACCTTAACAGATCTTATCTACA 480
 421 ACTGATGAGCCAAATCCATTAACCAATTAAGTTTCAACCTTAACAGATCTTATCTACA 480
 481 ATCTCCTATAAATCTTGAGCCCAAGAGCGCTGCCAATTAATCTGCAATAGATCTG 540
 481 ATCTCCTATAAATCTTGAGCCCAAGAGCGCTGCCAATTAATCTGCAATAGATCTG 540
 541 TTAACGAGAGAGCTTGAGAGACACAGGAATTAACGAGATGAGCAAGAAATGATA 600
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 601 TGGATTACTATGACGATTAACAACGCGCTGCTCCAAAGTTAAGAGATTTGATGCCA 660
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 661 ATAACTATGAGAACTTTTAATGCTACTGATTTGCTGAGATGAGCTACATTTAAC 720
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 721 TGGAGATGATGATGATTAATTAAGACCCCAATCAAGAGGAAACAGTGAATTTCA 780
 721 TGGAGATGATGATGATTAATTAAGACCCCAATCAAGAGGAAACAGTGAATTTCA 780
 781 TAGGAGCATTTAATGATGATGAGCAATTTCAAGCTTACAAATTAACAGAACTT 840
 781 TAGGAGCATTTAATGATGATGAGCAATTTCAAGCTTACAAATTAACAGAACTT 840

RESULT 2
 US-10-093-037-60
 Sequence 60, Application US/10093037
 Publication No. US2007078397A1
 GENERAL INFORMATION:
 APPLICANT: Jay M. Short
 APPLICANT: Byline, Edward
 APPLICANT: Swanson, Ronald V.
 APPLICANT: Mathur, Eric J.
 APPLICANT: Lam, David E.
 TITLE OF INVENTION: ENZYMES HAVING GLYCOSIDASE ACTIVITY AND METHODS OF USE THEREOF
 FILE REFERENCE: 09010-024006
 CURRENT APPLICATION NUMBER: US/10/093,037
 PRIOR FILING DATE: 2002-03-06
 PRIOR APPLICATION NUMBER: US 09/910,579
 PRIOR FILING DATE: 2001-07-20
 PRIOR APPLICATION NUMBER: US 09/134,078
 PRIOR FILING DATE: 1998-08-13
 PRIOR APPLICATION NUMBER: US 08/949,026
 PRIOR FILING DATE: 1997-10-10
 PRIOR APPLICATION NUMBER: US 60/056,916
 PRIOR FILING DATE: 1996-12-06
 NUMBER OF SEQ ID NOS: 72
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 60
 LENGTH: 960
 TYPE: DNA
 ORGANISM: Pyrococcus furiosus
 US-10-093-037-60

Query Match 100.0%; Score 960; DB 15; Length 960;
 Best Local Similarity 100.0%; Pred. No. 3.4e-272;
 Matches 960; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGAGCAGAGAAAGTTGCTGATGCTATCTATCTTAAGCAATCCTTTTATGATAGGCAATA 60
 1 ATGAGCAGAGAAAGTTGCTGATGCTATCTATCTTAAGCAATCCTTTTATGATAGGCAATA 60
 61 TATTTGTGAAAGATCAATCTCTGAGACAAGTCAATCTCAATCTCATCTCA 120
 61 TATTTGTGAAAGATCAATCTCTGAGACAAGTCAATCTCAATCTCATCTCA 120
 121 CCAACCCCAACACATCTTCCATCAACAGTTCTCAAGATTAGATACCTGATAGCGT 180
 121 CCAACCCCAACACATCTTCCATCAACAGTTCTCAAGATTAGATACCTGATAGCGT 180
 181 GAGTGGCCAGGAGCTCCTATGATAGATGAGTGGAGACCCAGAAATTTACATTGAA 240
 181 GAGTGGCCAGGAGCTCCTATGATAGATGAGTGGAGACCCAGAAATTTACATTGAA 240
 241 ATAACTATGAGAACTTTTAATGCTACTGATTTGCTGAGATGAGCTACATTTAAC 300
 241 ATAACTATGAGAACTTTTAATGCTACTGATTTGCTGAGATGAGCTACATTTAAC 300
 301 AGGCGGCTCCTTCACTACGTCGCAACAACTTGACAACTTGTCTGAGGATGAGATAT 360
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 361 TGGGTGATGATACCCCGAAATTTCTATGAGAAACAGCCATGAGTCAAACTAGCA 420
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Qy 541 TTAACGAGAGAGCTTGGAGAACACAGAAATTAAACGAGATGAGCAAGAAATGATA 600
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Db 601 TGAATTTACTATGATACGATTAACACCGGCTGGCTCCAAAGTTAAGGAAATTAATCTTCA 660
Qy 661 ATAAATGTTAACGGAACACCAAGTAAATGCTACATTTGAAGTATGGAAGGCAAACTTGT 720
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RESULT 3

US-10-003-759-4
; Sequence 4, Application US/10003759
; Publication No. US20020102699A1
; GENERAL INFORMATION:
; APPLICANT: Micher, Krzyzstof B.
; APPLICANT: Holst, Olof Peder
; APPLICANT: Hoechem, Maher Yousef Abou
; APPLICANT: Karlsson, Eva Margareta No. US20020102699A1dberg
; APPLICANT: Heggvidsson, Gudmundur O.
; TITLE OF INVENTION: Thermostable Cellulase
; FILE REFERENCE: P5099PC00
; CURRENT APPLICATION NUMBER: US/10/003,759
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: PCT/IS01/00012
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/594,884
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1134
; TYPE: DNA
; ORGANISM: Pyrococcus furiosus
; FEATURE:
; NAME/KEY: exon
; LOCATION: (82)..(1041)
; OTHER INFORMATION:
US-10-003-759-4

Query Match 99.8%; Score 958.4; DB 14; Length 1134;
Best Local Similarity 99.9%; Pred. No. 1,1e-271;
Matches 95; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGAGCAAGAAAAGTTGCTGATCGATCTATCTTAAACAATCTTTAGTACAGGCATA 60
Db 82 ATGAGCAAGAAAAGTTGCTGATCGATCTATCTTAAACAATCTTTAGTACAGGCATA 141

Qy 61 TATTTTGAAGAAAGTATACATTAACCTGAGGACAGTCAACTTCAATATCTTATCTTACA 120
Db 142 TATTTTGAAGAAAGTATACATTAACCTGAGGACAGTCAACTTCAATATCTTATCTTACA 201
Qy 121 CCAGCCCAACACACTTTTCACTACCAAGCTTCAAGTTGATTAACCTGATGACGT 180
Db 202 CCAGCCCAACACACTTTTCACTACCAAGCTTCAAGTTGATTAACCTGATGACGT 261
Qy 181 GAGTGGCAAGAGCTCTTATGATTAAGATGATGATGGAAGCCAGAAATTTCAATTTGA 240
Db 262 GAGTGGCAAGAGCTCTTATGATTAAGATGATGATGGAAGCCAGAAATTTCAATTTGA 321
Qy 241 ATAAACCTTATGAAACATTTCTTAATGCTATGTAATTTGCTGATGATGATGATTTTACC 300
Db 322 ATAAACCTTATGAAACATTTCTTAATGCTATGTAATTTGCTGATGATGATGATTTTACC 381
Qy 301 AGCGGCTCTTCACTACGTCACAACTTGACAACTTGACAACTTGACGAGATAGAAAT 360
Db 382 AGCGGCTCTTCACTACGTCACAACTTGACAACTTGACAACTTGACGAGATAGAAAT 441
Qy 361 TGGTGCATGATACCCCGAAATTTCTATGAAACAGCCATGAAATGCAATTTACCA 420
Db 442 TGGTGCATGATACCCCGAAATTTCTATGAAACAGCCATGAAATGCAATTTACCA 501
Qy 421 ACTGATGGCCCAATACCATTAACCAAGTAAATTTCAACCTTACAGCTTCTATCTTACA 480
Db 502 ACTGATGGCCCAATACCATTAACCAAGTAAATTTCAACCTTACAGCTTCTATCTTACA 561
Qy 481 ATCTCTATAAATTGAGCCCAAGAGCGCTGCCAATTAATCTGCAATAGATCTGG 540
Db 562 ATCTCTATAAATTGAGCCCAAGAGCGCTGCCAATTAATCTGCAATAGATCTGG 621
Qy 541 TTAACGAGAGAGCTTGGAGAACACAGAAATTAAACGAGATGAGCAAGAAATGATA 600
Db 622 TTAACGAGAGAGCTTGGAGAACACAGAAATTAAACGAGATGAGCAAGAAATGATA 681
Qy 601 TGAATTTACTATGATACGATTAACACCGGCTGGCTCCAAAGTTAAGGAAATTAATCTTCA 660
Db 682 TGAATTTACTATGATACGATTAACACCGGCTGGCTCCAAAGTTAAGGAAATTAATCTTCA 741
Qy 661 ATAAATGTTAACGGAACACCAAGTAAATGCTACATTTGAAGTATGGAAGGCAAACTTGT 720
Db 742 ATAAATGTTAACGGAACACCAAGTAAATGCTACATTTGAAGTATGGAAGGCAAACTTGT 801
Qy 721 TGGAGATATGTTGCAATTTAGAAATTAAGACCCCAATGAAGAGGAAACATTTCA 780
Db 802 TGGAGATATGTTGCAATTTAGAAATTAAGACCCCAATGAAGAGGAAACATTTCA 861
Qy 841 TACTTGAAGACGCTGAGAGATTTGAATGATTTGAAGCGCAAGCACTACCTCCGCCAC 900
Db 922 TACTTGAAGACGCTGAGAGATTTGAATGATTTGAAGCGCAAGCACTACCTCCGCCAC 981
Qy 901 CTGAGATGATGATCAAAACATPAACATTAACCTCTAGATAGACCTTTATTTCTTAA 960
Db 982 CTGAGATGATGATCAAAACATPAACATTAACCTCTAGATAGACCTTTATTTCTTAA 1041

RESULT 4

US-10-228-063-58
; Sequence 58, Application US/10228063
; Publication No. US20030135885A1
; GENERAL INFORMATION:
; APPLICANT: Ianehan, Mike
; TITLE OF INVENTION: Self-processing Plants and Plant Parts
; FILE REFERENCE: 109946.317
; CURRENT APPLICATION NUMBER: US/10/228,063
; CURRENT FILING DATE: 2002-12-12
; NUMBER OF SEQ ID NOS: 60

Matches 319; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
DB 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
QY 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
DB 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
QY 121 WHGYPEIFYGNKPMNANYATDGPILPESKVSNLDFYLTISYKLEPKNGLPINFALBSW 180
DB 121 WHGYPEIFYGNKPMNANYATDGPILPESKVSNLDFYLTISYKLEPKNGLPINFALBSW 180
QY 181 LTRAWRTTGINSDEQEVMIWYDGLQPSGSKVKEIIVPIIVNGTPVNAFEEWKANIG 240
DB 181 LTRAWRTTGINSDEQEVMIWYDGLQPSGSKVKEIIVPIIVNGTPVNAFEEWKANIG 240
QY 241 MEYVAFRIKTPKEGTVTIPYGAFISVANISLSLPVTELYEDVEIGTEFGTPTTSAH 300
DB 241 MEYVAFRIKTPKEGTVTIPYGAFISVANISLSLPVTELYEDVEIGTEFGTPTTSAH 300
QY 301 LEWMTNITLTPDLRPLIS 319
DB 301 LEWMTNITLTPDLRPLIS 319
```

RESULT 2

US-10-121-032-64
Sequence 64, Application US/10121032
Publication No. US20020155550A1

GENERAL INFORMATION:

APPLICANT: Bylina, Edward J.
TITLE OF INVENTION: GLYCOSIDASE ENZYMES
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESS:
ADDRESSEE: Gray Cary Ware & Freidenrich LLP
STREET: 4365 Executive Drive, Suite 1600
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/121,032
FILING DATE: 09-Apr-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/134,078
FILING DATE: 13-AUG-1998
APPLICATION NUMBER: 08/949,026
FILING DATE: 10-OCT-1997
APPLICATION NUMBER: 60/056,916
FILING DATE: 06-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Halje, Lisa A.
REGISTRATION NUMBER: 36,347
REFERENCE/DOCKET NUMBER: 09010/024002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 858/677-1456
TELEFAX: 858/677-1465
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
SEQUENCE DESCRIPTION: SEQ ID NO: 64:

US-10-121-032-64

Query Match 100.0%; Score 1701; DB 13; Length 319;
Best Local Similarity 100.0%; Pred. No. 7,9e-160;
Matches 319; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
DB 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
QY 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
DB 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
QY 121 WHGYPEIFYGNKPMNANYATDGPILPESKVSNLDFYLTISYKLEPKNGLPINFALBSW 180
DB 121 WHGYPEIFYGNKPMNANYATDGPILPESKVSNLDFYLTISYKLEPKNGLPINFALBSW 180
QY 181 LTRAWRTTGINSDEQEVMIWYDGLQPSGSKVKEIIVPIIVNGTPVNAFEEWKANIG 240
DB 181 LTRAWRTTGINSDEQEVMIWYDGLQPSGSKVKEIIVPIIVNGTPVNAFEEWKANIG 240
QY 241 MEYVAFRIKTPKEGTVTIPYGAFISVANISLSLPVTELYEDVEIGTEFGTPTTSAH 300
DB 241 MEYVAFRIKTPKEGTVTIPYGAFISVANISLSLPVTELYEDVEIGTEFGTPTTSAH 300
QY 301 LEWMTNITLTPDLRPLIS 319
DB 301 LEWMTNITLTPDLRPLIS 319
```

RESULT 3

US-10-093-037-64
Sequence 64, Application US/10093037
Publication No. US20030078397A1

GENERAL INFORMATION:

APPLICANT: Jay M. Short
APPLICANT: Bylina, Edward
APPLICANT: Swanson, Ronald V.
APPLICANT: Mathur, Eric J.
APPLICANT: Lam, David B.
TITLE OF INVENTION: ENZYMES HAVING GLYCOSIDASE ACTIVITY AND METHODS OF USE THEREOF
FILE REFERENCE: 09010-024006
CURRENT APPLICATION NUMBER: US/10/093,037
CURRENT FILING DATE: 2002-03-06
PRIOR APPLICATION NUMBER: US 09/910,579
PRIOR FILING DATE: 2001-07-20
PRIOR APPLICATION NUMBER: US 09/134,078
PRIOR FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 08/949,026
PRIOR FILING DATE: 1997-10-10
PRIOR APPLICATION NUMBER: US 60/056,916
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 64
LENGTH: 319
TYPE: PRT
ORGANISM: Pyrococcus furiosus
US-10-093-037-64

Query Match 100.0%; Score 1701; DB 14; Length 319;

Best Local Similarity 100.0%; Pred. No. 7,9e-160;
Matches 319; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
DB 1 MSKKKVIYSILTLILVQAIYFEKHTSEDKSTSTSTPQTTLSTTKVKIRYPDDG 60
QY 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
DB 61 EMPGAPIDKGDGNPEFYIEINLMNLNATGFAEMTYNLTSGVLHYVQOLDNIVLDRSN 120
```

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```
QY 121 WVGHPPEIFGNKPMNANATDGPPLPSKYSNLTDFLTISYKLEPKNGLPINFAIESW 180
DB 121 WVGHPPEIFGNKPMNANATDGPPLPSKYSNLTDFLTISYKLEPKNGLPINFAIESW 180
QY 181 LTRBAMRTTGINSDEQEVMIWYDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIG 240
DB 181 LTRBAMRTTGINSDEQEVMIWYDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIG 240
QY 241 MEYAFRIKTPIKEGTTPPYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAH 300
DB 241 MEYAFRIKTPIKEGTTPPYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAH 300
QY 301 LEWMTNTITLTPDRPLIS 319
DB 301 LEWMTNTITLTPDRPLIS 319
```

RESULT 4

```
US-10-228-063-55
; Sequence 55, Application US/10228063
; Publication No. US2003013585A1
; GENERAL INFORMATION:
; APPLICANT: Lananan, Mike
; TITLE OF INVENTION: Self-Processing Plants and Plant Parts
; FILE REFERENCE: 109846.317
; CURRENT APPLICATION NUMBER: US/10/228,063
; CURRENT FILING DATE: 2002-12-12
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Pyrococcus furiosus
US-10-228-063-55
```

```
Query Match 95.1%; Score 1617; DB 14; Length 300;
Best Local Similarity 100.0%; Pred. No. 1.5e-151;
Matches 300; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 20 IYFVEKHTSDKSTNSSTPPTLTSTTKYLKIRYDDGEMPGAPIDKGDGDPFYI 79
DB 1 IYFVKHTSDKSTNSSTPPTLTSTTKYLKIRYDDGEMPGAPIDKGDGDPFYI 60
QY 80 EIMNMIINATGFAEMTYNLTSGLVHYVQOLDNIYLRDSNMVHGYPEIFGNKPMNANY 139
DB 61 EIMNMIINATGFAEMTYNLTSGLVHYVQOLDNIYLRDSNMVHGYPEIFGNKPMNANY 120
QY 140 ATDGPPLPSKYSNLTDFLTISYKLEPKNGLPINFAIESWLTREAMRTTGINSDEQEV 199
DB 121 ATDGPPLPSKYSNLTDFLTISYKLEPKNGLPINFAIESWLTREAMRTTGINSDEQEV 180
QY 200 IWIYVDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIGMEYAFRIKTPIKEGTYI 259
DB 181 IWIYVDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIGMEYAFRIKTPIKEGTYI 240
QY 260 PYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAHLEWMTNTITLTPDRPLIS 319
DB 241 PYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAHLEWMTNTITLTPDRPLIS 300
```

RESULT 5

```
US-10-369-483-3041
; Sequence 3041, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
```

```
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3041
; LENGTH: 274
; TYPE: PRT
; ORGANISM: Thermotoga maritima
US-10-369-493-3041
```

```
Query Match 27.3%; Score 464; DB 15; Length 274;
Best Local Similarity 40.4%; Pred. No. 2.6e-37;
Matches 93; Conservative 43; Mismatches 84; Indels 10; Gaps 4;
```

```
QY 79 IEINMIINATGFAEMTYNLTSGLVHYVQOLDNIYLRDSNMVHGYPEIFGNKPMNAN 138
DB 39 IEINMIINATGFAEMTYNLTSGLVHYVQOLDNIYLRDSNMVHGYPEIFGNKPMNAN 96
QY 139 YATDGPPLPSKYSNLTDFLTISYKLEPKNGLPINFAIESWLTREAMRTTGINSDEQEV 198
DB 97 --NSGVEFLPVAKYKOLPDTYLDYSIWENNLPINLMEWTITSPQTS-VSGDABI 153
QY 199 MNIYDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIGMEYAFRIKTPIKEGTYI 258
DB 154 MNIYDGLQDPAGSKYKEIVVPIVNGTPVNATFEVWKANIGMEYAFRIKTPIKEGTYI 213
QY 259 IPYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAHLEW 303
DB 214 IPYGAFISVANATSLPNTYELVEDEVEIGTEGTPSTTSAHLEW 263
```

RESULT 6

```
US-10-003-759-2
; Sequence 2, Application US/10003759
; Publication No. US20020102699A1
; GENERAL INFORMATION:
; APPLICANT: Wicher, Krysztztof B.
; APPLICANT: Holst, Olof Peder
; APPLICANT: Hachem, Maher Youseef Abou
; APPLICANT: Karlsson, Eva Margareta No. US20020102699A1berg
; APPLICANT: Heggystadson, Gudmundur O.
; TITLE OF INVENTION: Thermocable Cellulase
; FILE REFERENCE: P5099PC00
; CURRENT APPLICATION NUMBER: US/10/003,759
; CURRENT FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: PCT/IS01/00012
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/594,884
; PRIOR FILING DATE: 2000-06-15
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Rhodococcus marinus
US-10-003-759-2
```

```
Query Match 9.8%; Score 166.5; DB 13; Length 261;
Best Local Similarity 26.6%; Pred. No. 7.3e-08;
Matches 66; Conservative 35; Mismatches 108; Indels 39; Gaps 11;
```

```
QY 59 DGEWPGAPIDKGDGDPFYI-----NLMNMIINATGFAEMTYNLTSGLVHYV 107
DB 19 DGEWPGAPIDKGDGDPFYI-----NLMNMIINATGFAEMTYNLTSGLVHYV 74
QY 108 QOLDNIYLRDSNMVHGYPEIFGNKPMNANATDGPPLPSKYSNLTDFLTISY 163
DB 75 -ETGNTITIRADHDNONNVAAYPAIFYGCH-WGACTSNGS--LRRVQELSD--VRSW 127
QY 164 KLEPKNGLPINFAIESWLTREAMRTTGINSDEQEVMIWYDGLQDPAGSKYKEIVVPI 222
DB 128 TLTPITTGKMAAYDIWSPVTNSGNGY-SGAELIIMIMNGVWPGSSRVATVEL--- 183
```